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Review of Recent Literature

Carlquist, S. 1981. Wood anatomy of Nepenthaceae. Bull. Torrey Bot. Club 108: 324-330.

Wood anatomy of this family is herein described for the first time. Details of wood anatomy are consistent with the alean (order Theales) relationship for the family as suggested by other studies, although the wood studies are not specific.

Chapman, A.D. 1981. The propagation of *Drosera binata*. Australian Plants 11:175, 182.

This is actually a summary of an 1866 article by the author (Trans. Bot. Soc. Edinbrough 8:542-544) in which the author describes propagation of the species by root cuttings in detail. An interesting aside is how the species was introduced to Kew by accident in 1823 (!) when it came up in some soil shipped from Australia. (DES)

Dixon, K.W. 1981. *Drosera*. Australian Plants 11:170-173.

A review of the biology and phenology of tuberous *Droseras* in general with special emphasis on *D. erythrorhiza*. There is a drawing of the plant's anatomy and tuber/rhizome/dropper terminology, a phenology diagram, and three color photos of other tuberous species. Some comments on flowering and culture are included. (DES)

Dudley, T.R. 1981. Taxonomic and nomenclatural notes on the flora of Isla de los Estados (Staten Island), Tierra Del Fuego, Argentina. Rhodora 83:477-519.

Along with a large number of non-CP species collected (herbarium) by the author, he lists two CP species: *Drosera uniflora* and *Pinguicula antarctica*.

Estey, R.H. and S.S. Tzean. 1981. An ultrastructural examination of nematode-trapping fungi. Can. J. Plant Sci. 61:785-789.

Species of *Arthrobotrys*, *Dactylaria* and *Monacrosporium* penetrate captured nematodes by chemical dissolution of the cuticle. The nematodes show no physiological response to this penetration. The three cells of the constriction rings of *A. dactyloides* do not share equally in the production of hyphae that penetrate nematodes.

Schnell, D.E. 1981. *Sarracenia purpurea* L. ssp. *venosa* (Raf.). Wherry: Variations in the Carolinas coastal plain. Castanea 46:225-234.

The main variation consists of all red/purple leafed, red-veined on green leaf, and intermediates. The red/purple character is only expressed in full light but this is genetic since not all plants have this capacity. There is a discussion of flower petal and sepal coloration variation as well, and a brief discussion of the fragrance of ssp. *venosa* flowers versus that of ssp. *purpurea* flowers in northern ranges. Finally, possible values of anthocyanin pigments are discussed, and it is concluded that under present habitat conditions, the variation is probably non-adaptive. (Reprints (N/C): D.E.

(Continued on page 27)

THE 1982 LIST OF CP BOOKS

Not available through CPN. Order direct from publisher or your local bookshop.

*=books intended primarily for children.

1. Insectivorous Plants, Charles Darwin, AMS Press, 1893, 56 E. 13th St., N.Y., NY 10003, \$27.50.
2. Plants that Eat Insects: A Look At Carnivorous Plants*, Anabel Dean, Lerner Publications, 1977, 241 First Avenue, Minneapolis, MN 55401. \$5.95.
3. Plants of Prey in Australia, Rica Erickson, Univ. of W.A. Press, 1968, World Insectivorous Plants, P.O. Box 303, Grant, FL 32949, Cloth, \$15.00.
4. Animals & Plants That Trap*, Phillip Goldstein, Holiday, 1974, Holiday House, Inc., 18 E. 53rd St., N.Y., NY 10022, \$5.95.
5. Nepenthes of Mt. Kinabalu (in English), Kurata, S., Sabah National Park, World Insectivorous Plants, Box 283, Grant, FL 32949, \$7.00.
6. Carnivorous Plants, F.E. Lloyd, Dover Publications, Inc., 1976, 180 Varick St., N.Y., NY 10014, soft cover \$5.00.
7. The World of Carnivorous Plants, J. and P. Pietropaolo, R.J. Stoneridge, Peter Paul Nurseries, 1974, \$6.30.
8. Insect-Eating Plants*, L. and G. Poole, T.Y. Crowell, 1963, 666 Fifth Avenue, N.Y., NY 10003, \$4.50.
9. Plants that Eat Animals*, J.H. Prince, Thomas Nelson, 1978, 407 Ave. S, Nashville, TN 37203, \$7.95.
10. CP of the U.S. and Canada, D.E. Schnell, John F. Blair, Publisher, 1976, 1406 Plaza Dr., SW, Winston-Salem, NC 27103, \$19.95 plus shipping.
11. Carnivorous Plants, Randall Schwartz, Avon Books, 1975, 959 Eighth Ave., N.Y., NY 10019, soft cover \$1.25.
12. Carnivorous Plants, Adrian Slack, MIT Press, 1979, 28 Carleton St., Cambridge, MA 02142, \$19.95.
13. Cultivating Carnivorous Plants, Allen Swenson, Doubleday & Co., 1977, Garden City, NY 11535, \$7.95.
14. Carnivorous Plants*, John F. Waters, Franklin Watts, Inc., 1974, 845 Third Avenue, N.Y., NY 10022, \$4.90.
15. Carnivorous Plants*, Cynthia Overbeck, Lerner Publications, 1981, 241 First Avenue, Minneapolis, MN 55401, \$7.95.
16. Secrets of the Venus's Fly Trap*, Jerome Wexler, Dodd, Mead & Co., 1981, 79 Madison Ave., N.Y., NY 10016, \$6.95.

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Schnell, Rt. 4, Box 275B, Statesville, NC 28677.)

Thompson, J.N. 1981. Reversed animal-plant interactions: The evolution of insectivorous and ant-fed plants. *Biol. J. Linnean Soc.* 16:147-155.

In this interesting article, the relative ecologic strategies of plant carnivory and another insect-plant relationship, the mutualistic one of tropical ant-plants, are discussed in evolutionary terms. It is concluded that while both guilds have similar environmental stresses in terms of soil nutrient deficiencies, CP are primarily adapted for "what they do" because they are mainly herbs growing in wet soils, or vines in close, wet forests (e.g., *Nepenthes*), while ant-plants are mainly vines or other kinds of plants in open areas or canopies, often reasonably dry. The theory that such plant-insect relationships occur in evolution multiply suggests that plants as a whole have limited responses to nutrient lack in soils or water.



Dionaea muscipula
Photo by Thomas Carow

WANT ADS

When submitting Want Ads, please be sure to print clearly for best results and to eliminate mistakes. Please circle the correct letter before each item (Want, Trade, Sell or Buy). Want ads are limited to carnivorous plants, terrariums, greenhouses and moss. There is a charge of ten cents per item, with no limit to the number of items you may submit per issue.

Send coin or check to:
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Bruce Lee Bednar (25 Lake Court Loop; SSS Ocala, FL 32672) [TS] red tube *flava*, giant Okee minor, *rubra gulfensis*, *rubra wherryi*, *rubra* × *alata*, *rubra* × *leuco*, *rubra* × *psitt*, *rubra* × *purp*, *psitt* × *leuco*, *psitt* × *minor*, *purp* × *leuco*, *purp* × *flava*, *purp* × *alata*, *alaata* × *leuco*, and many more. [WT] *Nepenthes* plants or cuttings, *Heliamphora*.

Grant Birmingham (88 Sturocks Rd.; Christ Church 5; New Zealand) [WTB] *N. rajah*, *N. villosa*, *N. northiana*, any New Caledonian CP, any *Heliamphora*, *P. vallisnerianaefolia*, *D. × collinsiae*, *D. alba*, *D. ramentaceae*, *D. banksii*, *D. indica*, *D. arenicola*, plus any other uncommon CP. [T] *D. arcturi* (NZ), *D. stenopetala*, *D. spatulata* (NZ), *D. adelae*, *P. mexicana*, *U. monathos*, plus other NZ and Australian *Drosera*.

Joseph P. Cantasano (2717 Jerusalem Ave.; North Bellmore, NY 11710) [WB] *Cephalotus*.

Mark Forster (c/o Buckley Hutton; 167 Collins St.; Melbourne; VIC 3000; Australia) [BT] seed of *Nepenthes* spp. (except *mirabilis*, *khassiana*), *Byblis gigantea*, *Drosera regia*, *Heliamphora*, Mexican *pinguiculas*, *Polypompholyx*. [T] seeds of *Drosera auriculata*, *D. peltata*, small seedlings of *Darlingtonia californica* (Australia only).

Steve Smith (Rd. #1, Box 296; Kirkwood, NY 13795) [ST] rooted *Nepenthes* cuttings, Mexican *pinguiculas*, *Drosera*, and *Utricularia* plants. Send SASE for current list of species available. Include your list if interested in trading.

Drosera (continued from page 20)

problems, as the full sun and low moisture level seem to keep this problem to a minimum. The seeds should germinate in four weeks with a 60% success rate (lower if the plant is self-fertilized). When seedlings are three weeks old, they are placed in plastic pots in the same medium as adults and treated as mature specimens.